

Lithographic Projection Apparatus,  
Device Manufacturing Method and Device Manufactured Thereby

**ABSTRACT**

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*In-situ* cleaning of optical components for use in a lithographic projection apparatus can be carried out by irradiating a space within the apparatus containing the optical component with UV or EUV radiation having a wavelength of less than 250nm, in the presence of molecular oxygen. Generally, the space will be purged with an ozoneless purge gas which contains a small amount of molecular oxygen in addition to the usual purge gas composition. The technique can also be used in an evacuated space by introducing a low pressure of molecular oxygen into the space.

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